WHAT IS CLAIMED IS:

A method of operating a spread spectrum receiver comprising:
 tracking a first signal as a direct signal;
 tracking a second signal as a multipath signal;
 monitoring the delay between the direct signal and the multipath signal;
 when the delay is within 1.5 chips, modeling the correlation products for the multipath signal; and
 compensating for the modeled correlation product.

- 2. The method of claim 1 wherein compensating for the modeled correlation product comprises subtracting the modeled correlation from the direct signal correlation.
 - 3. The method of claim 1 wherein tracking a second signal comprises: detecting a plurality of second signals; comparing the magnitudes of the second signals; and tracking the second signal having the greatest magnitude.
- 4. The method of claim 1 further comprising:
 when the direct signal is obscured, tracking the multipath signal as the direct path signal.
 - 5. The method of claim 1 further comprising: tracking changes in the progression of the delay; and maintaining a model of the direct signal based on the progression of the delay.
- 6. The method of claim 5 further comprising:
 when the direct signal is obscured, using the modeled direct path signal as the direct
 path signal.
 - 7. A spread spectrum receiver comprising: means for tracking a first signal as a direct signal;

means for tracking a second signal as a multipath signal;
means for monitoring the delay between the direct signal and the multipath signal;
means for modeling the correlation products for the multipath signal when the delay
is within 1.5 chips; and

means for compensating for the modeled correlation product.

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- 8. The receiver of claim 7 wherein the compensating means comprises means for subtracting the modeled correlation from the direct signal correlation.
 - 9. The receiver of claim 7 wherein means for tracking a second signal comprises: means for detecting a plurality of second signals; means for comparing the magnitudes of the second signals; and means for tracking the second signal having the greatest magnitude.
- 10. The receiver of claim 7 further comprising:

 means for tracking the multipath signal as the direct path signal when the direct signal is obscured.
- 11. The receiver of claim 10 further comprising: means for tracking changes in the progression of the delay; and means for maintaining a model of the direct signal based on the progression of the delay.
- 12. The receiver of claim 11 further comprising:
 means for using the modeled direct path signal as the direct path signal, when the direct signal is obscured.